

Application No. 10/007788

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

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1. (Original) A gas inflation/evacuation system removeably connectable to a proximal portion of a guidewire assembly, comprising:
 - means for evacuating air from the guidewire assembly; and
 - means for introducing a biocompatible gas into the guidewire assembly to inflate an occlusive balloon proximate a distal end of the guidewire assembly a plurality of times; and
 - means for selectively sealing the proximal portion of the guidewire assembly at one of a plurality of separate locations to form one of a plurality of airtight seals of the guidewire assembly.
 2. (Original) The system of claim 1 wherein the gas inflation/evacuation system is a handheld apparatus.
 3. (Withdrawn) The system of claim 2 wherein the proximal portion of the guidewire assembly is selectively insertable into a first aperture of the handheld apparatus and the gas inflation/evacuation system is operably connected to a second aperture of the handheld apparatus, the handheld apparatus comprising an airtight passageway connecting the first aperture and the second aperture.
 4. (Original) The system of claim 1 wherein the means for sealing comprises a crimping mechanism.
 5. (Original) The system of claim 4 wherein the crimping mechanism comprises:

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a first depressable roller and a second bias offset roller proximately spaced from the first roller for traversal of the guidewire, the first roller being connected to a depressable lever handle with a pivotable cam arrangement such that force on the handle causes the first roller to proportionately approach the offset second roller, a first threshold force on the handle sealing the proximal portion of the guidewire and a second threshold force on the handle severing the proximal portion of the guidewire.

6. (Original) The system of claim 5 wherein the depressable lever handle is spring biased for an automatic return to an open starting position upon the cessation of a depressable force.
7. (Withdrawn) The system of claim 1 wherein the means for sealing comprises a plugging mechanism that selectively inserts a plug of material into the proximal portion of the guidewire assembly while maintaining an airtight seal between the guidewire assembly and the inflation/evacuation system.
8. (Original) The system of claim 1 wherein the inflation/evacuation system is contained in a sterile packaging.
9. (Original) The system of claim 8 wherein the sterile packaging is packaged in a vessel filled with a biocompatible gas and any gas within the sterile packaging when packaged is only the biocompatible gas.
10. (Original) A gas inflation/evacuation system removeably connectable to a proximal portion of a guidewire assembly, comprising:
- a first syringe system that selectively evacuates air from the guidewire assembly;
 - and
 - a second syringe system that selectively introduces a biocompatible gas into the guidewire assembly to inflate an occlusive balloon proximate a distal end of the guidewire assembly a plurality of times; and

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a sealing system removeably connectable to the proximal portion of the guidewire assembly that selectively seals the proximate portion at one of a plurality of separate locations to form one of a plurality of airtight seals of the guidewire assembly.

11. (Withdrawn) The system of claim 10 wherein the gas inflation/evacuation system and the sealing system are arranged as parts of a handheld apparatus and the proximal portion of the guidewire assembly is selectively insertable into a first aperture of the handheld apparatus and the gas inflation system is operably connected to a second aperture of the handheld apparatus, the handheld apparatus comprising an airtight passageway connecting the first aperture and the second aperture.

12. (Original) The system of claim 10 wherein the sealing system comprises a crimping mechanism.

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13. (Original) The system of claim 12 wherein the crimping mechanism comprises:
a first depressable roller and a second bias offset roller proximately spaced from the first roller for traversal of the guidewire, the first roller being connected to a depressable lever handle with a pivotable cam arrangement such that force on the handle causes the first roller to proportionately approach the offset second roller, a first threshold force on the handle sealing the proximal portion of the guidewire and a second threshold force on the handle severing the proximal portion of the guidewire.

14. (Original) The system of claim 13 wherein the depressable lever handle is spring biased for an automatic return to an open starting position upon cessation of a depressable force.

15. (Withdrawn) The system of claim 10 wherein the sealing system comprises a plugging mechanism that selectively inserts a plug of material into the proximal portion while maintaining an airtight seal between the guidewire assembly and the inflation/evacuation system.

16. (Original) The system of claim 10 wherein the gas inflation/evacuation system is contained in a sterile packaging.

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17. (Original) The system of claim 16 wherein the sterile packaging is packaged in a vessel filled with a biocompatible gas and any gas within the sterile packaging when packaged is only the biocompatible gas.

18. (Withdrawn) A gas inflation/deflation system selectively operably connectable to and removable from a proximal portion of a guidewire assembly, comprising:

a hand-held structure having a first aperture and a second aperture with a lumen defined therebetween such that the proximal portion of the guidewire is insertable into the first aperture;

a sealing mechanism housed within the handheld structure and positioned along at least a portion of the lumen to sealably engage the proximal portion of the guidewire;

a crimping mechanism operably arranged to selectively crimp the guidewire at a point along the proximal portion of the guidewire;

a first syringe system that selectively evacuates air from the guidewire assembly;

a second syringe system containing a volume of a biocompatible gas sufficient to inflate an occlusive balloon proximate a distal end of the guidewire assembly a plurality of times; and

conduits operably connecting the first syringe system and the second syringe system to the second aperture of the hand-held structure, the conduits including a valve arrangement that selectively connects only one of the first syringe system and the second syringe system to the second aperture at a time.

19. (Withdrawn) The system of claim 18 wherein the second syringe system includes a plurality of individual syringes, each individual syringe containing a sufficient volume of gas to inflate the occlusive balloon one time.

20. (Withdrawn) The system of claim 18 wherein the crimping mechanism comprises:

a first depressible roller and a second bias offset roller proximately spaced from the first roller for traversal of the guidewire, the first roller being connected to a depressible lever handle with a pivotable cam arrangement such that force on the handle causes the first roller to proportionately approach the offset second roller, a first threshold force on the handle sealing the

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proximal portion of the guidewire and a second threshold force on the handle severing the proximal portion of the guidewire.

21. (Withdrawn) The system of claim 20 wherein the depressible lever handle is spring biased for an automatic return to an open starting position upon cessation of a depressible force.

22. (Withdrawn) A gas inflation/evacuation system removably connectable to a proximal portion of a guidewire assembly, comprising:

a hand-held structure having a first aperture and a second aperture with a lumen defined therebetween such that the proximal portion of the guidewire is insertable into the first aperture;

a sealing mechanism housed within the handheld structure and positioned along at least a portion of the lumen to sealably engage the proximal portion of the guidewire;

a crimping mechanism operably arranged to selectively crimp the guidewire at a point along the proximal portion of the guidewire;

a first syringe system that selectively evacuates air from the guidewire assembly; and

a plurality of syringe systems, each syringe system containing a volume of a biocompatible gas sufficient to inflate an occlusive balloon proximate a distal end of the guidewire assembly a plurality of times.

23. (Withdrawn) The system of claim 22 further comprising:

conduits operably connecting the first syringe system and the plurality of syringe systems to the second aperture of the hand-held structure, the conduits including a valve arrangement that selectively connects only one of the first syringe system and the plurality of syringe systems to the second aperture at a time.

24. (Withdrawn) The system of claim 22 wherein the inflation/evacuation system is contained in a sterile packaging.

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25. (Withdrawn) The system of claim 24 wherein the sterile packaging is packaged in a vessel filled with a biocompatible gas and any gas within the sterile packaging when packaged is only the biocompatible gas.

26.-31. (Cancelled)

32. (Withdrawn) A gas inflation/evacuation system removably connectable to a proximal portion of a guidewire assembly, comprising:

a first syringe system that selectively evacuates air from the guidewire assembly;
and

a second syringe system that selectively introduces a biocompatible gas into the guidewire assembly to inflate an occlusive balloon proximate a distal end of the guidewire assembly a plurality of times; and

a sealing system removably connectable to a the proximal portion of the guidewire assembly that selectively seals the proximal portion of the guidewire assembly at one of a plurality of separate locations to form one of a plurality of airtight seals of the guidewire assembly, including:

a first aperture and a second aperture in fluid communication, the first aperture capable of receiving the proximal portion of the guidewire, the second aperture removably attachable to a conduit;

an operational o-ring in coaxial alignment and contained within the first aperture for operational engagement of the guidewire some insertion distance through the first aperture;

a sealant o-ring in coaxial alignment and contained within the first aperture whereby it is distally spaced from the operational o-ring such that further insertion of the guidewire into the body, through the first aperture, and past the operational o-ring will bring the guidewire into engagement with the sealant o-ring; and

a sealant containment layer for receiving the guidewire some distance past the insertion of the guidewire through the sealant o-ring whereby the sealant containment layer includes sealant material such that insertion of the guidewire into the sealant

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containment layer and into the sealant material forces the sealant material into the proximal portion of the guidewire.

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33. (Withdrawn) The system of claim 32 wherein the sealant material is selected from the group consisting of: wax, plastic, polymer, and metal.
